

AMENDMENTS TO THE SPECIFICATION

Please delete the section heading at page 2, line 21.

Please replace the section heading at page 7, line 8 with the following rewritten section heading:

-- ~~MEANS FOR SOLVING THE PROBLEMS~~SUMMARY OF THE INVENTION --

Please delete the section heading at page 19, line 11.

Please insert the following section heading and new paragraphs at page 23, line 9 with the following:

-- BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic top view of an embodiment of a liquid type identification apparatus for a light oil according to the present invention;

Fig. 2 is a cross-sectional view taken on line A-A of Fig. 1;

Fig. 3 is a partially enlarged cross-sectional view showing the state of mounting of the liquid type identification sensor shown in Fig. 2;

Fig. 4 is a cross-sectional view of a liquid type identification sensor;

Fig. 5 is a partially enlarged exploded perspective view showing the state of laminating of a thin-film chip part in a liquid type identification sensor;

Fig. 6 is a schematic circuit block diagram of an embodiment of a liquid type identification apparatus for a light oil according to the present invention;

Fig. 7 is a graph showing a time vs. voltage relationship showing a liquid type identification method using a liquid type identification apparatus for a light oil according to the present invention;

Fig. 8 is a graph of an enlarged I part shown in Fig. 7;

Fig. 9 is a graph showing a kinematic viscosity vs. the sensor output relationship;

Fig. 10 is a graph showing a kinematic viscosity vs. distillation temperature relationship;

Fig. 11 is a graph showing a sensor output vs. distillation temperature relationship;

Fig. 12 is a graph showing a calibration curve in a liquid type identification method using a liquid type identification apparatus for a light oil according to the present invention;

Fig. 13 is a graph showing an output correction method in a liquid type identification method using a liquid type identification apparatus for a light oil according to the present invention;

Fig. 14 is the same schematic diagram as Fig. 16, illustrating an embodiment in which the apparatus 10 for identifying the liquid type of a light oil having a such structure is applied to an automobile system;

Fig. 15 is the same schematic diagram as Fig. 16, illustrating an embodiment in which the apparatus 10 for identifying the liquid type of a light oil having a such structure is applied to an automobile system;

Fig. 16 is a schematic diagram of a conventional automobile system; and

Fig. 17 is a graph showing distillation properties of a light oil.

Please replace the section heading at page 23, line 10 with the following rewritten section heading:

-- ~~BEST MODE FOR CARRYING OUT~~DETAILED DESCRIPTION OF THE
INVENTION --

Please delete the section heading at page 37, line 21.

Please delete the section heading and entire section beginning at page 38, line 3 to page 42, line 11.